

0590  
0513

#2



OIKE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/081,347

DATE: 05/21/2002

TIME: 14:22:46

Input Set : N:\Cr3\RULE60\10081347.raw

Output Set: N:\CRF3\05212002\J081347.raw

ENTERED

```

1 <110> APPLICANT: Deisher, Theresa A.
2   Conklin, Darrell C.
3   Raymond, Fenella
4   Bukowski, Thomas R.
5   Holderman, Susan D.
6   Hansen, Birgit
7   Sheppard, Paul O.
8 <120> TITLE OF INVENTION: NOVEL FGF HOMOLOGS.
9 <130> FILE REFERENCE: 96-20C1
10 <140> CURRENT APPLICATION NUMBER: 10/081,347
11 <141> CURRENT FILING DATE: 2002-02-21
13 <150> PRIOR APPLICATION NUMBER: US/09/229,947
14 <151> PRIOR FILING DATE: 1999-01-13
16 <160> NUMBER OF SEQ ID NOS: 43
17 <170> SOFTWARE: FastSEQ for Windows Version 3.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 917
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo sapiens
23 <220> FEATURE:
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (1)...(621)
26 <400> SEQUENCE: 1
27   atg tat tca gcg ccc tcc gcc tgc act tgc ctg tgt tta cac ttc ctg      48
28   Met Tyr Ser Ala Pro Ser Ala Cys Thr Cys Leu Cys Leu His Phe Leu
29   1          5          10          15
30   ctg ctg tgc ttc cag gta cag gtg ctg gtt gcc gag gag aac gtg gac      96
31   Leu Leu Cys Phe Gln Val Gln Val Leu Val Ala Glu Glu Asn Val Asp
32   20          25          30
33   ttc cgc atc cac gtg gag aac cag acg cgg gct cgg gac gat gtg agc      144
34   Phe Arg Ile His Val Glu Asn Gln Thr Arg Ala Arg Asp Asp Val Ser
35   35          40          45
36   cgt aag cag ctg cgg ctg tac cag ctc tac agc cgg acc agt ggg aaa      192
37   Arg Lys Gln Leu Arg Leu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys
38   50          55          60
39   cac atc cag gtc ctg ggc cgc agg atc agt gcc cgc ggc gag gat ggg      240
40   His Ile Gln Val Leu Gly Arg Arg Ile Ser Ala Arg Gly Glu Asp Gly
41   65          70          75          80
42   gac aag tat gcc cag ctc cta gtg gag aca gac acc ttc ggt agt caa      288
43   Asp Lys Tyr Ala Gln Leu Leu Val Glu Thr Asp Thr Phe Gly Ser Gln
44   85          90          95
45   gtc cgg atc aag ggc aag gag acg gaa ttc tac ctg tgc atg aac cgc      336
46   Val Arg Ile Lys Gly Lys Glu Thr Glu Phe Tyr Leu Cys Met Asn Arg

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```

47          100          105          110
48  aaa ggc aag ctc gtg ggg aag ccc gat ggc acc agc aag gag tgt gtg      384
49  Lys Gly Lys Leu Val Gly Lys Pro Asp Gly Thr Ser Lys Glu Cys Val
50          115          120          125
51  ttc atc gag aag gtt ctg gag aac aac tac acg gcc ctg atg tcg gct      432
52  Phe Ile Glu Lys Val Leu Glu Asn Asn Tyr Thr Ala Leu Met Ser Ala
53          130          135          140
54  aag tac tcc ggc tgg tac gtg ggc ttc acc aag aag ggg cgg ccg cgg      480
55  Lys Tyr Ser Gly Trp Tyr Val Gly Phe Thr Lys Lys Gly Arg Pro Arg
56  145          150          155          160
57  aag ggc ccc aag acc cgg gag aac cag cag gac gtg cat ttc atg aag      528
58  Lys Gly Pro Lys Thr Arg Glu Asn Gln Gln Asp Val His Phe Met Lys
59          165          170          175
60  cgc tac ccc aag ggg cag ccg gag ctt cag aag ccc ttc aag tac acg      576
61  Arg Tyr Pro Lys Gly Gln Pro Glu Leu Gln Lys Pro Phe Lys Tyr Thr
62          180          185          190
63  acg gtg acc aag agg tcc cgt cgg atc cgg ccc aca cac cct gcc      621
64  Thr Val Thr Lys Arg Ser Arg Arg Ile Arg Pro Thr His Pro Ala
65          195          200          205
66  taggccaccc cgccgcggcc ctcaggtcgc cctggccaca ctcacactcc cagaaaactg      681
67  catcagagga atatttttac atgaaaaata aggattttat tgttgacttg aaacccccga      741
68  tgacaaaaga ctcacgcaaa gggactgtag tcaaccacaca ggtgcttgtc tctctctagg      801
69  aacagacaac tctaaactcg tccccagagg aggacttgaa tgaggaaacc aacactttga      861
70  gaaaccaaag tcctttttcc caaaggttct gaaaaaaaaa aaaaaaaaaa ctcgag      917
72 <210> SEQ ID NO: 2
73 <211> LENGTH: 207
74 <212> TYPE: PRT
75 <213> ORGANISM: Homo sapiens
76 <400> SEQUENCE: 2
77  Met Tyr Ser Ala Pro Ser Ala Cys Thr Cys Leu Cys Leu His Phe Leu
78      1          5          10          15
79  Leu Leu Cys Phe Gln Val Gln Val Leu Val Ala Glu Glu Asn Val Asp
80          20          25          30
81  Phe Arg Ile His Val Glu Asn Gln Thr Arg Ala Arg Asp Asp Val Ser
82          35          40          45
83  Arg Lys Gln Leu Arg Leu Tyr Gln Leu Tyr Ser Arg Thr Ser Gly Lys
84          50          55          60
85  His Ile Gln Val Leu Gly Arg Arg Ile Ser Ala Arg Gly Glu Asp Gly
86          65          70          75          80
87  Asp Lys Tyr Ala Gln Leu Leu Val Glu Thr Asp Thr Phe Gly Ser Gln
88          85          90          95
89  Val Arg Ile Lys Gly Lys Glu Thr Glu Phe Tyr Leu Cys Met Asn Arg
90          100          105          110
91  Lys Gly Lys Leu Val Gly Lys Pro Asp Gly Thr Ser Lys Glu Cys Val
92          115          120          125
93  Phe Ile Glu Lys Val Leu Glu Asn Asn Tyr Thr Ala Leu Met Ser Ala
94          130          135          140
95  Lys Tyr Ser Gly Trp Tyr Val Gly Phe Thr Lys Lys Gly Arg Pro Arg
96  145          150          155          160

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Input Set : N:\Crf3\RULE60\10081347.raw

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```

97      Lys Gly Pro Lys Thr Arg Glu Asn Gln Gln Asp Val His Phe Met Lys
98                      165                      170                      175
99      Arg Tyr Pro Lys Gly Gln Pro Glu Leu Gln Lys Pro Phe Lys Tyr Thr
100                      180                      185                      190
101      Thr Val Thr Lys Arg Ser Arg Arg Ile Arg Pro Thr His Pro Ala
102                      195                      200                      205
104 <210> SEQ ID NO: 3
105 <211> LENGTH: 24
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: oligonucleotide primer ZC11676
110 <400> SEQUENCE: 3
111      ggacttgact accgaaggtg tctg
113 <210> SEQ ID NO: 4
114 <211> LENGTH: 23
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: oligonucleotide primer ZC11677
119 <400> SEQUENCE: 4
120      gtcgatgtga gccgtaagca gct
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 26
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: oligonucleotide primer ZC12053
128 <400> SEQUENCE: 5
129      gcatacttgt ccccatcctc gccgcg
131 <210> SEQ ID NO: 6
132 <211> LENGTH: 621
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
135 <220> FEATURE:
136 <223> OTHER INFORMATION: degenerate sequence
137 <220> FEATURE:
138 <221> NAME/KEY: variation
139 <222> LOCATION: (1)...(621)
140 <223> OTHER INFORMATION: n is any nucleotide
141 <400> SEQUENCE: 6
W--> 142      atgtaywsng cncnwsngc ntgyacntgy ytntgytnc ayttyytnyt nyntngytty      60
W--> 143      cargtncharg tnyntngtngc ngargaraay gtngayttym gnathgaygt ngaraarcar      120
W--> 144      acnmngncnm gngaygaygt nwsnmgnaar carytnmgny tntaycaryt ntaywsnmgn      180
W--> 145      acnwsnggna arcayathca rgtnytnggn mgnmgnaathw sngcnmgngg ngargayggn      240
W--> 146      gayaartayg ncarytnyt ngtngaracn gayacnttyg gnwsncargt nmgnathaar      300
W--> 147      ggnaargara cngarttyta yytntgyatg aaymgnaarg gnaarytngt nggnaarccn      360
W--> 148      gayggnacnw snaargartg ygtnttyath garaargtny tngaraayaa ytayacngcn      420
W--> 149      ytnatgwsng cnaartayws nggntggtay gtnggnttya cnaaraargg nmgnccnmgn      480

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Output Set: N:\CRF3\05212002\J081347.raw

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W--> 150      aarggnccna aracnmnga raaycarcar gaygtncayt tyatgaarmg ntayccnaar      540
W--> 151      ggncarccng arytncaraa rccnttyaar tayacnacng tnacnaarmg nwsnmgnmgn      600
W--> 152      athmgncna cncayccngc n      621
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 47
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: oligonucleotide primer ZC12652
160 <400> SEQUENCE: 7
161      tatttatcta gactggttcc gcgtgccgcc gaggagaacg tggactt      47
163 <210> SEQ ID NO: 8
164 <211> LENGTH: 33
165 <212> TYPE: DNA
166 <213> ORGANISM: Artificial Sequence
167 <220> FEATURE:
168 <223> OTHER INFORMATION: oligonucleotide primer ZC12631
169 <400> SEQUENCE: 8
170      gtatttgtcg actcaggcag ggtgtgtggg ccg      33
172 <210> SEQ ID NO: 9
173 <211> LENGTH: 22
174 <212> TYPE: DNA
175 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: oligonucleotide primer ZC15290
178 <400> SEQUENCE: 9
179      gccgaggaga acgtggactt cc      22
181 <210> SEQ ID NO: 10
182 <211> LENGTH: 47
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: oligonucleotide primer ZC15270
187 <400> SEQUENCE: 10
188      tatttatcta gagatgacga tgacaaggcc gaggagaacg tggactt      47
190 <210> SEQ ID NO: 11
191 <211> LENGTH: 41
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: oligonucleotide primer ZC13497
196 <400> SEQUENCE: 11
197      agcattgcta aagaagaagg tgtaagcttg gacaagagag a      41
199 <210> SEQ ID NO: 12
200 <211> LENGTH: 63
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: oligonucleotide primer ZC15131

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Input Set : N:\Crf3\RULE60\10081347.raw

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205 <400> SEQUENCE: 12
206      ggtgtaagct tggacaagag agaggagaac gtggacttcc gcatccacgt ggagaaccag      60
207      acg                                                                    63
209 <210> SEQ ID NO: 13
210 <211> LENGTH: 39
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
213 <220> FEATURE:
214 <223> OTHER INFORMATION: oligonucleotide primer ZC15134
215 <400> SEQUENCE: 13
216      ccggtctgtag agctggtaca gccgcagctg cttacggct      39
218 <210> SEQ ID NO: 14
219 <211> LENGTH: 42
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <220> FEATURE:
223 <223> OTHER INFORMATION: oligonucleotide primer ZC13529
224 <400> SEQUENCE: 14
225      cttcagaagc ccttcaagta cacgacggcg accaagaggt cc      42
227 <210> SEQ ID NO: 15
228 <211> LENGTH: 61
229 <212> TYPE: DNA
230 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: oligonucleotide primer ZC13525
233 <400> SEQUENCE: 15
234      acgacgggtga ccaagagggtc ccgtcggatc cggccacac accctgccta gggggaattc      60
235      g                                                                    61
237 <210> SEQ ID NO: 16
238 <211> LENGTH: 61
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: oligonucleotide primer ZC13526
243 <400> SEQUENCE: 16
244      caaacaggca gccctagaat actagtgtcg actcgaggat ccgaattccc ctaggcagg      60
245      g                                                                    61
247 <210> SEQ ID NO: 17
248 <211> LENGTH: 44
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
251 <220> FEATURE:
252 <223> OTHER INFORMATION: oligonucleotide primer ZC13528
253 <400> SEQUENCE: 17
254      ctcaaaaatt ataaaaatat ccaaacaggc agccctagaa tact      44
256 <210> SEQ ID NO: 18
257 <211> LENGTH: 186
258 <212> TYPE: DNA
259 <213> ORGANISM: Artificial Sequence

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/081,347

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Input Set : N:\Crf3\RULE60\10081347.raw  
Output Set: N:\CRF3\05212002\J081347.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 9,12,15,18,21,27,33,39,48,51,54,66,72,75,78,81,93,102,111  
Seq#:6; N Pos. 123,126,129,132,141,144,147,156,159,162,171,177,180,183,186  
Seq#:6; N Pos. 189,204,207,210,213,216,222,225,228,231,240,252,258,261,264  
Seq#:6; N Pos. 270,276,282,285,291,294,303,312,324,336,342,348,351,354,360  
Seq#:6; N Pos. 366,369,372,384,399,402,417,420,423,429,432,441,444,453,456  
Seq#:6; N Pos. 462,471,474,477,480,486,489,495,498,516,531,537,543,549,555  
Seq#:6; N Pos. 564,576,579,582,585,591,594,597,600,606,609,612,618,621  
Seq#:36; Xaa Pos. 2,4  
Seq#:37; Xaa Pos. 2,3

## VERIFICATION SUMMARY

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TIME: 14:22:47

Input Set : N:\Crf3\RULE60\10081347.raw

Output Set: N:\CRF3\05212002\J081347.raw

L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:60  
L:144 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:120  
L:145 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:180  
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:240  
L:147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300  
L:148 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:360  
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:420  
L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:480  
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:540  
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:600  
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0